Message

From: Partridge, Charles [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=27DA56DA9A12472787EF56077099CF36-PARTRIDGE, CHARLES]
Sent: 12/11/2019 3:23:48 PM
To: OBrien, Wendy [OBrien.Wendy@epa.gov]
Subject: Fwd: edits

Sent from my iPhone

Begin forwarded message:

> **From:** "Wall, Dan" <wall.dan@epa.gov>
> **Date:** December 11, 2019 at 7:57:50 AM MST
> **To:** "Partridge, Charles" <Partridge.Charles@epa.gov>
> **Subject: RE: edits**
>
> Suggested edits
>
> **From:** Partridge, Charles <Partridge.Charles@epa.gov>
> **Sent:** Tuesday, December 10, 2019 1:04 PM
> **To:** Wall, Dan <wall.dan@epa.gov>
> **Subject:** edits
>
> Dan,
>
> Below is the text that I am working on to send to the lead author on the 2016 MIREC study. Please edit.
>
> cp
>
> Dr. Arbuckle,
>
> My name is Charlie Partridge and I am a toxicologist with the United States Environmental Protection Agency (USEPA) in Denver, Colorado. I have been recently reading with great interest your 2016 Chemosphere paper which examined metals levels in meconium collected through the MIREC study. I am dealing with a situation in one of the States in my Region (Butte, Montana), that I hope that you might be able to help. A research group has recently published a study comparing the levels of metals in meconium collected in Butte, Montana (a site with extensive mining history and ongoing cleanup of mining related contaminants) with a "control" population of infants from a largely unaffected area in Columbia, South Carolina. In this short paper they claim that metals levels (Cu, Mn and Zinc) were 1650-1900 times higher in the meconium of Butte infants when compared to meconium from infants in South Carolina. As you can imagine, this has created a lot of public ~~outcry~~ concern in the Butte community. ~~and the researchers have even gone as so far as being quoted in the popular press that their on results may constitute a "public health emergency".~~ Please find attached a copy of the relevant research paper~~, the popular press articles~~ and a presentation that I ~~presented~~ gave to the Health Study Workgroup in the Butte community on 12/10/2019. I am particularly interested in Table 1 of your 2016 paper, in which descriptive statistics were presented for metals in the maternal, cord blood and meconium. Would you by chance have descriptive statistics from the meconium for any other metals? I realize the MIREC study is not representative of the population, but it is the largest meconium data set that I could find and the quality control of the study is beyond question. As you can imagine, time is of

the essence in order for me and my colleagues to be able to allay some of the public's concerns that this study has created. ~~Also, if you have any comments on the McDermott, et al paper please feel free to share those as well.~~

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